



Email : sales@laboratoryinstrumentindia.com

Product Name :
Stress And Strain Analysis On A Thin Walled Cylinder

Product Code :
LBNY-0005-12700069



Description :

Hydraulic cylinder with hydraulic pump to generate pressure
Hermetically sealed hydraulic system, maintenance-free
Investigation of the stresses and strains in a thin-walled cylinder under internal pressure
Strain gauge application on cylinder surface at various angles
Cylinder usable as open pipe or as closed tank

Technical Specification :

Aluminum cylinder
Length: 400mm
Diameter: $d=75\text{mm}$
Internal pressure: max. $3,5\text{N/mm}$ (35bar)
Wall thickness: 2,8mm
Pressure gauge
0...40bar, accuracy: class 1,0
Strain gauge application
Gauge factor: 2,00 +/-1%
Supply voltage: 10V
5 strain gauges: half-bridges, 350 Ohm
Angle to vessel axis: 0, 30, 45, 60, 90.



Laboratory Instrument India